

COMMODORE SOFTWARE ORGANIZATION

CONFIDENTIAL

COMMODORE SOFTWARE ORGANIZATION

Presented by
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THE "COMMODORE" APPROACH...

AS WE BECOME A BILLION DOLLAR COMPANY
IT'S GOOD AND NECESSARY TO BE ORGANIZED
LIKE A "MAJOR" CORPORATION
BUT WE CAN'T LOSE SIGHT OF THE PRINCIPLES
THAT MADE COMMODORE GREAT...

1. ENTREPRENEURIAL FLAIR
2. QUICK RESPONSE CAPABILITY
3. INDIVIDUAL INVOLVEMENT
4. SHORT, OPEN LINES OF COMMUNICATION
5. REWARDS FOR THOSE WHO TRY HARDEST
AS WELL AS THOSE WHO ACCOMPLISH MOST

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SOFTWARE ORGANIZATION CHARTER

THE SOFTWARE ORGANIZATION ACTS AS A CATALYST BETWEEN
RESEARCH/DESIGN, MANUFACTURING AND SALES

WE TAKE DIRECTION AND INPUT FROM ALL COMMODORE MARKETING
COMPANIES WITH REGARD TO THEIR NEEDS & PRIORITIES

WE REACT ON A TIMELY BASIS TO PROVIDE HIGH QUALITY,
BUG-FREE, USER-ORIENTED, SALEABLE SOFTWARE
PRODUCTS, INCLUDING SOFTWARE PROGRAMS,
SOFTWARE PUBLICATIONS AND RELATED ACCESSORIES

WE TAKE ALL THE MEANS AT OUR DISPOSAL TO OBTAIN
THE SOFTWARE WE WANT TO SELL...LICENSE IT,
BUY IT, DEVELOP IT, CONVERT IT OR INVENT IT

WE ARE RECEPTIVE AND BUSINESSLIKE IN DEALING
WITH THIRD PARTY SOFTWARE DEVELOPERS

OUR SOFTWARE IS TARGETED TO GENERATE A MINIMUM
OF 20 PERCENT OF THE CORPORATION'S SALES,
WITH SIGNIFICANT GROSS MARGIN CONTRIBUTION

SOFTWARE PHILOSOPHY

**THE RIGHT MIX, SELECTION, VARIETY AND QUANTITY OF SOFTWARE
WILL SUPPORT AND SIGNIFICANTLY INCREASE HARDWARE SALES**

SOFTWARE CAN BE THE MOST PROFITABLE SECTOR OF THE COMPANY

- LOW COST OF MATERIALS, HIGH RETURN ON INVESTMENT
- TRANSPORTABILITY REDUCES DEVELOPMENT COSTS
- EVERY HARDWARE SALE PROVIDES BUILT-IN, CONTINUOUS
SOFTWARE SALES OVER THE LIFE OF THE PRODUCT

WE'RE IN THE SYSTEMS BUSINESS

- DESIGN/SELL SOFTWARE AS WELL AS HARDWARE AND PERIPHERALS
- SYSTEMS APPROACH GUARANTEES MAXIMUM SALES PER CPU

OUR SOFTWARE SHOULD BE TAILORED TO MERCHANDISING CATEGORIES:

- MARKET CATEGORIES (BUSINESS, RECREATION, EDUCATION, ETC.)
- KEY SEGMENTS WITHIN EACH CATEGORY (I.E. WORDPROCESSOR)
- VARIOUS LEVELS OF DIFFICULTY/PRICES (BEGINNER-PROFESSIONAL)

WE ANTICIPATE & RESPOND TO THE DEMANDS OF THE CUSTOMER

- CONTINUOUS INPUT FROM COMMODORE SALES/MARKETING SPECIALISTS
- WATCH PRODUCT/CATEGORY SALES TO IDENTIFY & REACT TO TRENDS

**OUR CUSTOMERS SHOULDN'T HAVE TO SEARCH FOR WAYS TO USE OUR
COMPUTERS...SOFTWARE SHOULD PROVIDE THE USES,
SO THE CUSTOMER GETS MAXIMUM BENEFIT FROM OUR HARDWARE**

CONSUMER ORIENTATION

- CONSUMER EMPHASIS IN PRODUCT, PACKAGING, MANUALS, ADVERTISING
- ALL COMPUTERS (INCLUDING BUSINESS) NEED CONSUMER APPROACH
- OPTIMIZE THE MAN/MACHINE INTERFACE
- USER-FRIENDLINESS IS NOT LIMITED TO "HOME" COMPUTERS
- HOME AND BUSINESS PRODUCTS/MARKETS
ARE CONVERGING (PRICE/POWER)

**WE WANT TO CREATE THE PERCEPTION THAT WE HAVE THE BEST SOFTWARE
FOR OUR MACHINES, SO WE CAN MAXIMIZE HARDWARE SALES**

WE SHOULD WORK TOGETHER TO IMPROVE OUR COLLECTIVE BARGAINING POWER

- WORLD SALES POTENTIAL LETS US OBTAIN BEST LICENSE TERMS
- BEST TERMS LOWER COSTS, INCREASE PROFITS

SOFTWARE STRATEGY

1. PROVIDE "MOST NEEDED" SOFTWARE
FOR NEW COMPUTERS/PERIPHERALS.
2. COMPLETE EXISTING SOFTWARE PROJECTS
(ESPECIALLY "B" AND COMMODORE 64)
3. DETERMINE WHICH SOFTWARE
WE DON'T HAVE...AND GET IT!

MARKET TRENDS & SUGGESTED RESPONSES

MARKET TRENDS

HOW WE'RE RESPONDING

Non-game software is becoming more important in the consumer marketplace.

More non-game software for the VIC-20 (mostly from U.K.) and COMMODORE 64. Also, we're only licensing or converting the "best" games to COMMODORE 64.

Business computer market is confused by too many entries; users have difficulty knowing which software meets their needs.

Offering "nucleus" of key business programs (wordprocessor, spreadsheet, mail list, database, and accounting). Bundling is key - takes away the confusion from end user - he has a machine at the right price with the right software

More and more consumers are looking for products that help them learn how to program.

INTRO TO BASIC I and II and GORTEK provide excellent tutorials. Also developing COMMERCIAL BOOK series on how to program, including a 5-pack of books on how to program the COMMODORE 64.

Merchants want "bonus" software they can discount or give away with home computers.

DISK BONUS PACK/CASSETTE BONUS PACK offered free to dealers with each COMMODORE 64 as part of current marketing promotion.

CP/M and MS/DOS perceived as leading operating systems.

Various CP/M products and MS/DOS licensed and working on B series. Z80 cartridge for CP/M available for Commodore 64.

Mouse controlled, "icon" software beginning to emerge.

MERLIN project underway.

Speech technology becoming a standard requirement for home computers.

First talking game will be "Wizard of Wor." Other software being adapted or developed to help support speech module.

LONG TERM SOFTWARE OBJECTIVES (12-18 Months)

MAKE MORE MONEY FOR OUR STOCKHOLDERS

HELP COMPANY EVOLVE, DIVERSIFY AND GROW

CONTRIBUTE 20 PERCENT OF TOTAL SALES FROM SOFTWARE
PRODUCTS ALONE WITHIN THE NEXT 12-18 MONTHS

SUPPORT AND HELP INCREASE HARDWARE SALES

- "MENU" OF ESSENTIAL PROGRAMS FOR ALL PRODUCTS
- PROGRAMMING UTILITIES/TECHNICAL SUPPORT FOR LICENSEES
- "USER FRIENDLY" DOCUMENTATION & PROGRAMMING AIDS

PROVIDE STRONG NUCLEUS OF SOFTWARE WHICH IS SHIPPABLE AT
LAUNCH TIME FOR ALL NEW COMPUTERS/PERIPHERALS

ESTABLISH AND BUILD LONG-TERM "PARTNER" RELATIONSHIPS
WITH KEY SOFTWARE DEVELOPERS

FILL VOID FOR CREATIVE NEW SOFTWARE

- MORE "TRANSPARENT" PROGRAMS LIKE "MERLIN"
- UTILITIES LIKE SCREEN EDITORS, ASSEMBLERS, COMPILERS
- SOFTWARE FOR NEW PRODUCTS (SPEECH, ROBOTS)
- TELECOMMUNICATIONS

TAKE MAXIMUM ADVANTAGE OF AFTERMARKET SALES POTENTIAL
WITH NEW PROGRAMS, BOOKS, ACCESSORIES

ESTABLISH STRONG INTERNATIONAL COMMUNICATION CHANNELS

- OBTAIN MARKETING TARGETS/PRIORITIES
- IDENTIFY/TAKE IMMEDIATE ADVANTAGE OF SOFTWARE OPPORTUNITIES
- MAXIMIZE OUR UTILIZATION OF SCARCE PROGRAMMING RESOURCES
- REDUCE/ELIMINATE DUPLICATION OF EFFORT

WORK CLOSELY WITH U.S. AND WORLD MARKETING ORGANIZATIONS TO
SET PRIORITIES/TARGETS AND FOCUS ON "MOST-NEEDED" SOFTWARE

CONCENTRATE COMMODORE'S GLOBAL "BUYING POWER" TO NEGOTIATE
BEST POSSIBLE SOFTWARE DEALS FROM ALL DEVELOPERS WORLDWIDE

NEAR TERM SOFTWARE OBJECTIVES (6 Months)

MAKE MORE MONEY FOR OUR STOCKHOLDERS

OBTAIN RECOMMENDATIONS FROM ALL GENERAL MANAGERS, SOFTWARE AND MARKETING MANAGERS -- TO CONTINUOUSLY RECEIVE INPUTS ON OUR STRENGTHS AND WEAKNESSES AND IMPROVE OUR LEVEL OF SUCCESS

LICENSE/CONVERT APPLICATION SOFTWARE WHICH RUNS ON OUR NEW OPERATING SYSTEMS (CPM, CPM86, MS/DOS, UNIX/XENIX, etc.)

MAKE MARKET LEADER SOFTWARE READILY AVAILABLE

- OPERATING SYSTEMS (CPM, CPM86, CONCURRENT CPM, MS/DOS)
- APPLICATION SOFTWARE (WORDSTAR, CALCSTAR, MULTIPLAN, ETC.)
- GAMES (LICENSE THEMES/ORIGINAL GAMES, CONVERT ARCADE GAMES)
- EDUCATION (CONVERT TESTED/RECOGNIZED ACADEMIC SOFTWARE)

IDENTIFY BEST-SELLING SOFTWARE DEVELOPED IN INDIVIDUAL COUNTRIES TO PROMOTE/SHARE/SELL WORLDWIDE AND BENEFIT FROM THE SHARED SOFTWARE EXPERIENCE OF THE TOTAL CORPORATION

IDENTIFY, CONVERT & SELL EXISTING PUBLIC DOMAIN SOFTWARE

IDENTIFY TOP 10 SOFTWARE DEVELOPERS WITH "KNOWN" PRODUCTS AND CONTRACT THEM TO CONVERT PRODUCTS IN KEY CATEGORIES FOR THE B AND P SERIES, FOR COMMODORE TO MARKET/SELL

INCREASE SPEED/EFFICIENCY OF THE SOFTWARE DEVELOPMENT PROCESS

- USE MORE DEVELOPMENT TOOLS SUCH AS COMPILERS & EMULATORS
- IDENTIFY & SHARE SOFTWARE DEVELOPMENT TOOLS AMONG COMPANIES
- CONVERT MORE EXISTING PROGRAMS TO NEW MACHINES
- OBTAIN HARDWARE AS APPROPRIATE TO SPEED PROCESS
- APPLY PROFESSIONAL BUSINESS PLANNING PRINCIPLES TO PROJECTS

BUILD IN AS MUCH SOFTWARE TRANSPORTABILITY AS POSSIBLE

- CONVERSION EASIER/FASTER THAN DEVELOPING FROM SCRATCH
- MORE MILEAGE FROM EACH PROGRAM WE DEVELOP
- LOWER DEVELOPMENT COSTS
- DON'T HAVE TO REINVENT THE WHEEL FOR EVERY MACHINE
- MORE RECOGNITION/CREDIBILITY IN THE MARKETPLACE
- EASIER TO ADVERTISE 1 PRODUCT FOR SEVERAL MACHINES
- BASIS FOR PARTNERSHIPS WITH OUTSIDE DEVELOPERS

NEAR TERM SOFTWARE OBJECTIVES (Continued)

TIE SOFTWARE SCHEDULE TO EVOLUTION OF HARDWARE

- WORK CLOSELY WITH L.TAYLOR'S DIVISION SO SOFTWARE
AND HARDWARE ARE DEVELOPED IN PARALLEL

ESTABLISH SOFTWARE ACQUISITION/REVIEW PROCEDURES

DEVELOP HIGHLY INTEGRATED USER GROUP COTTAGE INDUSTRY

IMPLEMENT APPROVED PRODUCTS PROGRAM

BEGIN DEVELOPING INTEGRATED/COMPLEMENTARY SOFTWARE

ESTABLISH REGIONAL SOFTWARE SUPPORT CENTERS

SOFTWARE LICENSE UPDATE

The following contracts are either currently in the final stages of negotiation, or have already been signed. All deals give us worldwide rights. Titles may NOT be publicized or promoted until we formally announce the contract signings (We will notify you via telex). News releases will also be prepared and distributed for each contract.

NAME OF PROGRAM	COMPANY OR DEVELOPER	COMPUTER MODEL
CPM, CPM86 CONCURRENT CPM MONARCH	DIGITAL RESEARCH	B-SERIES
MS/DOS MULTIPLAN/MSDOS MULTIPLAN/CPM	MICROSOFT	B SERIES B & COMMODORE 64
WORDSTAR CALCSTAR MAILMERGE (others)	MICROPRO	B-SERIES (in 10 different languages)
THE MANAGER (database)	CANADIAN MICRO DISTRIBUTORS	COMMODORE 64
GENERAL LEDGER ACCTS.PAYABLE ACCTS.RECVBLE INVENTORY PAYROLL	INFODESIGNS	COMMODORE C128 B-SERIES
WORDPRO 64	PROLINE	COMMODORE 64
BONZO GAMES BASIC COMPILER DATABASE SYST.	FRANZ KAVAN	VIC-20 & C64

COMMODORE SOFTWARE - FUNCTIONAL RESPONSIBILITIES

1. SOFTWARE ACQUISITION
2. PRODUCT TESTING & REVIEW
3. DOCUMENTATION
4. PACKAGING, PRODUCTION LIAISON & SUPPORT
5. SOFTWARE DEVELOPMENT/CONVERSION/PROCUREMENT:
 - HOME & PERSONAL COMPUTER SOFTWARE
(TED, VIC-20, C64, EXEC64, C128)
 - BUSINESS COMPUTER SOFTWARE (B SERIES)
 - PERIPHERALS SOFTWARE (DISK, PRINTER, PLOTTER, etc.)
 - OPERATING SYSTEM SOFTWARE (CP/M, CP/M 86, MS/DOS, etc.)
 - SPECIAL PRODUCT SOFTWARE (SPEECH, KEYBOARD, DRUM, ROBOT)
 - RECREATIONAL SOFTWARE DEVELOPMENT
 - EDUCATIONAL SOFTWARE (PET 64, NETWORKING, ETC.)
 - MERLIN PROJECT
 - COMMERCIAL BOOKS

SOFTWARE SURVEY
(ACTION REQ'D)

INTERNATIONAL SOFTWARE SURVEY

(Your chance to give us your "wish list"!)

To start what we hope will become a continuous worldwide exchange of software information, we'd appreciate it if you'd fill out the attached sheets which provide space for the following information:

1. PRIORITIES or AREAS OF EMPHASIS you would like us to focus on in addition to the ones we've listed on the attached sheets.
2. The TOP 5 SOFTWARE TITLES or PRODUCTS you'd like to see running on each hardware product.
3. Any SOFTWARE PRODUCTS you have developed or licensed which other Commodore companies may be interested in selling.

Please give your responses to Sig Hartmann or respond by mail before May 1 to the following address:

Mr. Sig Hartmann
Commodore Software
1200 Wilson Drive
West Chester, PA 19380
USA

"TED" COMPUTER -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. First TED programs targeted to demo at CES Show...June.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

1. TITLE	SUBJECT
VENDOR	RETAIL PRICE
2. TITLE	SUBJECT
VENDOR	RETAIL PRICE
3. TITLE	SUBJECT
VENDOR	RETAIL PRICE
4. TITLE	SUBJECT
VENDOR	RETAIL PRICE
5. TITLE	SUBJECT
VENDOR	RETAIL PRICE

=====

YOUR NAME: _____ **POSITION:** _____

COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

VIC-20 COMPUTER -- RECOMMENDATIONS

SOFTWARE PRIORITY/EMPHASIS:

1. Expand software base to include non-game software.

2. _____

3. _____

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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YOUR NAME: _____ POSITION: _____
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COMMODORE 64 -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Get software to market!

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____
2. _____
3. _____
4. _____
5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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EXECUTIVE 64 (Portable) -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Bundle wordprocessor and spreadsheet?

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

1. TITLE	SUBJECT
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2. TITLE	SUBJECT
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VENDOR	RETAIL PRICE
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3. TITLE	SUBJECT
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VENDOR	RETAIL PRICE
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4. TITLE	SUBJECT
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VENDOR	RETAIL PRICE
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5. TITLE	SUBJECT
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VENDOR	RETAIL PRICE
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COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

PET 64 -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Identify/promote C64 software which is compatible with PET 64.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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YOUR NAME: _____ POSITION: _____

COMMODORE COMPANY/LOCATION: _____

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*will call to discuss contract terms

COMMODORE C128 (P500) -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Identify & convert key 40-column color programs.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

COMMODORE B SERIES (B/BX700) -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Launch with nucleus of business software.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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YOUR NAME: _____ POSITION: _____

COMMODORE COMPANY/LOCATION: _____

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COMMODORE 8088 PROCESSOR OPERATING SYSTEMS -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. CP/M,CP/M 86,CP/M Plus,Concurrent CP/M,MS/DOS

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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PHONE NUMBER: _____

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Z8000 SOFTWARE -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. UNIX and XENIX operating systems, applications.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

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COMMODORE DISK/PRINTER SOFTWARE -- RECOMMENDATIONS

SOFTWARE PRIORITY/EMPHASIS:

1. Make sure B software supports all Commodore disks, printers.

2. _____

3. _____

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____
2. _____
3. _____
4. _____
5. _____

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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YOUR NAME: _____ POSITION: _____
COMMODORE COMPANY/LOCATION: _____
PHONE NUMBER: _____

*will call to discuss contract terms

PRINTER/PLOTTER SOFTWARE -- RECOMMENDATIONS

SOFTWARE PRIORITY/EMPHASIS:

1. Provide software to support plotter & adapt existing programs.

2. _____

3. _____

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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NEW "ICON" SOFTWARE -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. "MERLIN" (code name) and "MONARCH" programs.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

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PHONE NUMBER: _____

*will call to discuss contract terms

COMMODORE SPEECH MODULE -- RECOMMENDATIONS

SOFTWARE PRIORITY/EMPHASIS:

1. Build speech capability into "talking" games, other software.

2. _____

3. _____

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. Text-to-speech product.

2. _____

3. _____

4. _____

5. _____

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COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

PIANO KEYBOARD SOFTWARE -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Software to launch keyboard for June CES.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

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YOUR NAME: _____ POSITION: _____

COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

DIGI-DRUM SOFTWARE -- RECOMMENDATIONS

=====

SOFTWARE PRIORITY/EMPHASIS:

1. Software support as required.

2. _____

3. _____

=====

TOP 5 SOFTWARE TITLES/PRODUCTS YOU'D LIKE TO HAVE/SELL:

1. _____

2. _____

3. _____

4. _____

5. _____

=====

KEY PROGRAMS YOU HAVE DEVELOPED/LICENSED:*

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COMMODORE COMPANY/LOCATION: _____

PHONE NUMBER: _____

*will call to discuss contract terms

"B" SERIES BUSINESS SOFTWARE - BY PROCESSOR/OPERATING SYSTEM

M. Tomczyk

Microprocessor	6509	8088	8088	8088	8088	Z-80
Operating System	COMMODORE	MS/DOS	CP/M 86	CONCURRENT CP/M	CP/M PLUS	CP/M
Wordprocessing			WORDSTAR			
Spelling Checker			SPELLSTAR (optional)			
Single Spreadsheet			CALCSTAR			
Multiple Spreadsheet		MULTIPLAN *				
Database & Filing			INFOSTAR (optional)			
Mail List			MAIL MERGE			
General Ledger	INFODESIGNS General Ledger					
Accounts Receivable	INFODESIGNS Accoun Receivable/Billing					
Accounts Payable	INFODESIGNS Accts Payable/Checkwrit					
Inventory Control	INFODESIGNS Inventory Control					
Payroll	INFODESIGNS Payroll					
Telecommunications						
"ICON" Software			MONARCH *			
Sales Order Entry	INFODESIGNS Order Entry					

*In Negotiation

BUSINESS SOFTWARE - PLANNING MATRIX

M. Tomezyk

	VIC-20	COMMODORE 64	COMMODORE C128	COMMODORE CBM8032	COMMODORE B128	COMMODORE B256	COMMODORE CBM128	COMMODORE CBM256
SPECIFICATIONS	5K 22 Col. Color 6502	64K 40 Col. Color 6510	128K 40 Col. Color 6509	32K 80 Col. Mono 6502	128K 80 Col. Mono 6509	256K 80 Col. Mono 6509	128K 80 Col. Monit Mono 6509/8088	256K 80 Col. Monit Mono 6509/8088
PROCESSOR OPTIONS		Z80/CPM	Z80/CPM		Z80/CPM,8088	Z80/CPM,8088	Z80/CP/M	Z80/CP/M
Wordprocessor	VICWRITER	WORD/NAME MACHINE EASYSRIPT 64 WORDPRO 64*					WORDSTAR (CPM86)	WORDSTAR (CPM86)
Spelling Checker		EASYSPELL 64 (Use w. EasyScript)					SPELLSTAR (CPM86) (optional)	SPELLSTAR (CPM86) (optional)
Single Spreadsheet	SIMPLICALC	EASYCALC 64 (CalcResult)					CALCSTAR (CPM86)	CALCSTAR (CPM86)
Multiple Spreadsheet		MULTIPLAN					MULTIPLAN (MS/DOS)	MULTIPLAN (MS/DOS)
Database & File System	VICFILE	THE MANAGER		CMAR File System OZZ I.R.M.A.personnel			DATASTAR (CPM86) (optional)	DATASTAR (CPM86) (optional)
Mail List		EASYMAIL 64					MAILMERGE (CPM86)	MAILMERGE (CPM86)
General Ledger		INFODESIGNS* General Ledger		BPI General Ledger	BPI General Ledger			
Accounts Receivable		INFODESIGNS* Accts Recvbl/Bill		BPI Accts Receivable	BPI Accts Receivable			
Accounts Payable		INFODESIGNS* Accts Payabl/Check		BPI Accts Payable	BPI Accts Payable			
Inventory Control		EASYINVENTORY 64 InfoDesigns* Inventory Control		BPI Inventory Control	BPI Inventory Control			
Payroll		INFODESIGNS* Payroll		BPI Payroll	BPI Payroll			
Financial Decision-Making	MONEY DECISIONS I MONEY DECISIONS II MONEY MANAGER (UK)	EASYFINANCE I EASYFINANCE II EASYFINANCE III EASYFINANCE IV EASYFINANCE V FUTURE FINANCE 64 HOME ACCOUNTANT*		BPI Job Costing Titan Job Cost Syst Medical Acctg System Legal Time Acctg Freight Ratings/Sys Atlas 1200 Svc/Main				
Tele-communications	VICTERMI (w.Modem) VICTERM 40	TERM20/64		DowJones Portfolio (Use with Modem)				MONARCH MS/DOS or CPM
"Icon" Software		MERLIN					MONARCH MS/DOS or CPM	

*In negotiation.

COMPUTER LANGUAGES & OPERATING SYSTEMS

PLANNING MATRIX

	VIC-20	COMMODORE 64	COMMODORE C128	COMMODORE CBM8032	COMMODORE B128	COMMODORE B256	COMMODORE CBM128	COMMODORE CBM256
SPECIFICATIONS	5K 22 Col. Color 6502	64K 40 Col. Color 6510	128K 40 Col. Color 6509	32K 80 Col. Mono 6502	128K 80 Col. Mono 6509	256K 80 Col. Mono 6509	128K 80 Col. Monit Mono 6509/8088	256K 80 Col. Monit. Mono 6509/8088
PROCESSOR OPTIONS		Z80/CPM	Z80/CPM		Z80/CPM,8088	Z80/CPM,8088	Z80/CPM	Z80/CPM
CP/M (Z80)		Z80 Cartridge				CP/M*		CP/M*
CP/M Plus						CP/M Plus*		CP/M Plus*
CP/M 86 (8088)						CP/M 86		CP/M 86
CONCURRENT CP/M (8088)						CONCURRENT CP/M*		CONCURRENT CP/M*
MS/DOS						MS/DOS*		MS/DOS*
APL								
CBASIC								
COBOL								
FORTRAN								
FORTH	(Sweden has)							
LOGO		LOGO						
PL/1								
PILOT		PILOT						
PASCAL								

*In progress of being implemented on B Machines.

EDUCATION & LEARNING AIDS - PLANNING MATRIX

M. Tomczyk

	VIC-20	COMMODORE 64	COMMODORE C128 (P)	COMMODORE CBM8032	COMMODORE B128	COMMODORE B256	COMMODORE CBM128	COMMODORE CBM256
SPECIFICATIONS	5K 22 Col. Color 6502	64K 40 Col. Color 6510	128K 40 Col. Color 6509	32K 80 Col. Mono 6502	128K 80 Col. Mono 6509	256K 80 Col. Mono 6509	128K 80-Col.Monitr Mono 6509/8088	256K 80-Col.Monitr Mono 6509/8088
PROCESSOR OPTIONS		Z80/CPM	Z80/CPM		Z80/CPM,8088	Z80/CPM,8088	Z80/CPM	Z80/CPM
CHILDREN'S BASIC PROGRAMMING COURSE	GORTEK	GORTEK						
INTRODUCTION TO BASIC -- PART I	INTRO TO BASIC - Part I	INTRO TO BASIC - Part I						
INTRODUCTION TO BASIC -- PART II	INTRO TO BASIC - Part II	INTRO TO BASIC - Part II						
ASSEMBLER TUTORIAL		ASSEMBLER TUTORIAL (U.K.)						
TEACHER'S QUIZ AND LESSON MAKER		EASYLESSON 64/EASY QUIZ 64						
EDUCATIONAL PUBLIC DOMAIN PACKAGE		656 PUBLIC DOMAIN PROGRAMS (Canada)						
PRE-SCHOOL "BABYSITTER"	HOME BABYSITTER							
MATH IMPROVEMENT	SPEED/BINGO MATH MATH IMPROVMT 6PAK	SPEED/BINGO MATH						
ASTRONOMY LEARNING	VISIBLE SOLAR SYSTEM	VISIBLE SOLAR SYSTEM						
MUSIC LEARNING		META MUSIC I						

NOTE: COMMODORE 64 software which runs on the PET 64 is shown on a separate page.

PROGRAMMING AIDS & UTILITIES - PLANNING MATRIX

M. Tomczyk

	VIC-20	COMMODORE 64	COMMODORE C128	COMMODORE CBM8032	COMMODORE B128	COMMODORE B256	COMMODORE CBM128	COMMODORE CBM256
SPECIFICATIONS	5K 22 Col. Color 6502	64K 40 Col. Color 6510	128K 40 Col. Color 6509	32K 80 Col. Mono 6502	128K 80 Col. Mono 6509	256K 80 Col. Mono 6509	128K 80 Col. Monit Mono 6509/8088	256K 80 Col. Monit. Mono 6509/8088
PROCESSOR OPTIONS		Z80/CPM	Z80/CPM		Z80/CPM,8088	Z80/CPM,8088	Z80/CPM	Z80/CPM
MACHINE LANGUAGE MONITOR	VICMON	(Included on Utility Disk)						
ASSEMBLER DEVELOPMENT		ASSEMBLER 64		ASSEMBLER SYSTEM				
SCREEN EDITOR		SCREEN EDITOR 64						
CHARACTER SET & SPRITE EDITOR	PROGRAMMABLE CHARACTER SET & GAMEGRAPHICS ED.	SPRITE ANIMATION EDITOR 64						
PET EMULATOR		PET EMULATOR 64						
PROGRAMMER'S AID (Prog.Commands)	PROGRAMMER'S AID	SIMON'S BASIC						
"EXTENDED" BASIC (Graphics)	SUPEREXPANDER	SUPEREXPANDER 64 (VSP)						

RECREATIONAL SOFTWARE - PLANNING MATRIX

M.Tomczyk

	VIC-20	COMMODORE 64	COMMODORE C128	TED		
SPECIFICATIONS	5K 22 Col. Color 6502	64K 40 Col. Color 6510	128K 40 Col. Color 6509			
BALLY MIDWAY ARCADE GAMES	GORF OMEGA RACE CLOWNS SEAWOLF	GORF OMEGA RACE CLOWNS SEAWOLF KICKMAN WIZARD OF WOR				
VIDEO ARCADE SERIES	JUPITER LANDER RADAR RATRACE SUPERSMASH VIC AVENGER PINBALL SPECTACULAR STAR POST COSMIC CRUNCHER COSMIC JAILBREAK RAID ON FT. KNOX SUPER ALIEN MONEY WARS MENAGERIE GARDEN WARS SUPERSLOT DRAW POKER SPY SCHOOL	JUPITER LANDER RADAR RATRACE SUPERSMASH AVENGERS PINBALL SPECTACULAR STAR POST LAZARIAN BLUEPRINT SOLAR FOX SATAN'S HOLLOW FORTY FATHOMS FROGMASTER GARDEN WARS				
CHILDREN'S GAMES	MOLE ATTACK THE SKY IS FALLING TOOTH INVADERS NUMBER NABBER	TOOTH INVADERS NUMBER NABBER				
INTELLECTUAL GAMES	SARGON II CHESS					
ADVENTURE GAME SERIES	ADVENTURE LAND PIRATE COVE THE COUNT VOODOO CASTLE					
LIFESTYLE SERIES	QUIZMASTER KNOW YOUR OWN PERSONALITY KNOW YOUR CHILD'S IQ KNOW YOUR OWN IQ CARRIER MENU PLANNER	QUIZMASTER KNOW YOUR OWN PERSONALITY KNOWN YOUR CHILD'S IQ KNOW YOUR OWN IQ CARRIER MENU PLANNER				
GAMES & RECREATION ON TAPE	MATH IMPROVMT 6 PACK RECREATION 6 PACK SAMPLER SIX PACK	C64 CASSETTE BONUS PAC				
ART & MUSIC	COMMODORE ARTIST	MUSIC MACHINE MUSIC COMPOSER				
SPORTS GAMES	ROAD RACE	LEMANS Soccer (UK/2 Player)				

SOFTWARE
TARGET DATES

PRODUCT	number	product name	u.p.c. #	CARTRIDGE tape	vendor	size bytes	program complete	test complete	to product.	BOOK written	BOOK printed	PACKAGING completed	SAMPLES available	to ship	PRICE list
education & learning aids															
c64-301	itb I	-	0-43467-0	tape	cbm-uk		*	*	*	*	5/1	5/12 c	5/12	5/12	29.95
c64-302	itb II		0-43467-0	tape	cbm-uk		after part I finished								29.95
c64-303	gortek		0-43467-00092	tape	cbm-uk		*	*	*	*	*	*	*	*	24.95
c64-304	computer tutor		0-43467-00084	cartridge	dig. learn		project is 7 months late. feb is poss. term.								
c64-305	assembler tutor		0-43467-0	disk	cbm-uk		4/15	4/20	4/21	4/20	5/10	5/15	5/10	5/15	
c64-310	ez lesson/quiz 64		0-43467-00082	disk	cbm		*	*	*	*	*	*	*	*	39.95
c64-311	educ. pub. domain		0-43467-0	disk	cbm-can										HOLD

art & music

c64-401	meta music		0-43467-00101	disk	cimarron	16k prj in quest									99.95
c64-402	music machine		0-43467-00099	cartridge	cbm-can	8k	*	*	*	*	*	*a	*	*	29.95
c64-403	music composer		0-43467-00100	cartridge	cbm	8k	*	*	*	*	*	*a	*	*	29.95

lifestyle series (c64-500 - c64-599)

c64-500 know ur iq
c64-501 know ur child iq
c64-502 know personality
c64-503 carrier menu pl.
c64-504 quizmaster
c64-505 money manager

product	number	product name	u.p.c.#	cartridge tape	vendor	memory size bytes	program complete	beta test complete	release to product.	instruct. book written	instruct. book printed	packaging completed	sales samples available	available to ship	retail price list
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public domain prgs

business

c64-700	business "BA"		0-43467-00126	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-701	geography "RA"		0-43467-00121	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-702	english I		0-43467-00128	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-703	english II		0-43467-00129	disk (15 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-704	english III		0-43467-00130	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-705	english IV		0-43467-00131	disk (3 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-706	english V		0-43467-00132	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-707	english VI		0-43467-00133	disk (15 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-708	english VII		0-43467-00134	disk (15 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-709	math I		0-43467-00135	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-710	math II		0-43467-00136	disk (15 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-711	math III		0-43467-00137	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-712	math IV		0-43467-00138	disk (12 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-713	math V		0-43467-00139	disk (12 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-714	math VI		0-43467-00140	disk (10 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-715	math VII		0-43467-00141	disk (5 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-716	math VIII		0-43467-00142	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-717	comp sci "CA"		0-43467-00143	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-718	science I		0-43467-00144	disk (12 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-719	science II		0-43467-00145	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-720	science III		0-43467-00146	disk (12 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-721	science IV		0-43467-00147	disk (12 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-722	tech "TA"		0-43467-00148	disk (10 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-723	history I		0-43467-00149	disk (5 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-724	games I		0-43467-00150	disk (14 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-725	games II		0-43467-00151	disk (13 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95
c64-726	games III		0-43467-00152	disk (7 prgs.)	cbm-pd		*	*	*	*	*	*	4/23	4/25	\$ 6.95

**COMMODORE SOFTWARE
ACQUISITION PROCEDURES**

SOFTWARE ACQUISITION PROCEDURES

The following details how new software comes into the Commodore Software Division from outside developers...we assume all products received by the group have been submitted by developers who want to have a commercial relationship with Commodore either by licensing their software to Commodore or by joining the Commodore Approved Products program.

SOFTWARE ACQUISITION PROCEDURES

1. The SOFTWARE LIBRARIAN receives all new software. He logs in the software and passes it on to the SOFTWARE REVIEW GROUP within 24 hours. He also sends a form letter to the VENDOR acknowledging receipt of the program.

If the program is a PRIORITY item or if it falls into a special category the librarian has been alerted to watch for, the SOFTWARE MARKETING COMMITTEE is immediately notified...so priority projects can be expedited.

2. The SOFTWARE REVIEW GROUP reviews the product and fills out a product evaluation form.

If a program receives an overall rating of five (5) or higher, it is passed on to the SOFTWARE MARKETING COMMITTEE.

If the program receives a rating of five (5) or less, it is returned to the author with a copy of the evaluation form and a letter thanking the author for the submission and inviting further submissions. The marketing committee is given a report of all evaluation reports including rejects.

3. The SOFTWARE MARKETING COMMITTEE reviews the recommendations of the REVIEW GROUP on a weekly basis and recommends whether a product should be targeted as a COMMODORE PRODUCT (licensed or OEM from vendor) if it should become a COMMODORE APPROVED PRODUCT, or if it should be REJECTED.

Three things happen if a product is recommended as a COMMODORE PRODUCT:

- (1) The vendor is IMMEDIATELY contacted and negotiations begun.
- (2) Assuming favorable response from the vendor, the product is given to the QUALITY ASSURANCE cell of the REVIEW GROUP for a detailed quality test.
- (3) If the product passes QUALITY ASSURANCE the MARKETING COMMITTEE is notified. If the product does not pass quality tests, it is returned to the VENDOR who is asked to correct the bugs/defects and resubmit to QUALITY ASSURANCE for a second test.

If the product is recommended as a COMMODORE APPROVED PRODUCT, the following occurs:

- (1) The vendor is IMMEDIATELY contacted and negotiations begun.
- (2) Assuming favorable response from the vendor and receipt of the APPLICATION fee, the product is given to the QUALITY ASSURANCE cell of the REVIEW GROUP for a detailed quality test.
- (3) If the product passes QUALITY ASSURANCE the MARKETING COMMITTEE is notified. If the product does not pass quality tests, it is returned to the VENDOR who is asked to correct the bugs/defects and resubmit to QUALITY ASSURANCE for a second test.

The current proposed members of the SOFTWARE MARKETING COMMITTEE include: S.Hartmann, M.Jones or alternate, M.Tomczyk, P.Goheen and G.Pratt. S.Greenberg and J.Mathias will be consulted on game programs, J.Kelly/A.Friedman will be consulted on business/financial programs, and D.Rosenwald/D.Kunz will be consulted on educational

projects. The purpose of the marketing committee is to provide a knowledgeable, flexible group of experts with different backgrounds so any consensus reached on a program is as valid and professional as possible. Other "experts" will be consulted as appropriate.

4. The **CONTRACT ADMINISTRATION** staff turns negotiation points into a contract as soon as the Marketing Committee has finalized negotiating points with a vendor whose product has passed quality assurance tests and been recommended as a Commodore or Commodore Approved Product.
5. **COMMODORE PRODUCTS** which are licensed are immediately placed in the **MANUFACTURING/PRODUCTION** stream and appropriate actions are taken by Marketing, Sales, etc.

COMMODORE APPROVED PRODUCTS are immediately included in that program, added to brochures and promotional materials and if appropriate offered to Contemporary Marketing for distribution.

#

P R O D U C T R E V I E W D O C U M E N T

Product Number: _____ Date: _____

Evaluator: _____

Product: _____ Contact: _____

Company: _____

Phone: _____ Hardware Required: _____

Target System Comments: _____

R E V I E W S U M M A R Y

RATING SCALE: (0-unsatis, 1-poor, 2-fair, 3-average, 4-good, 5-excellent)

	Rating	Factor	Total	Maximum
User Interface Considerations: (60%)	I	I	I	I
Program Flow	I	I	I	I
Input Routine Strength	I	I	I	I
Error Trapping	I	I	I	I
Screen Design	I	I	I	I
Clarity of Messages and Prompts	I	I	I	I
Uses Model Features: (9%)	I	I	I	I
Miscellaneous: (21%)	I	I	I	I
Completeness	I	I	I	I
Output Design	I	I	I	I
Accuracy / Bugs	I	I	I	I
Manual: (6% and 4%)	I	I	I	I
Completeness	I	I	I	I
Flow	I	I	I	I

TOTAL SCORE (actual score/maximum score * 100) >>>==>

SUGGESTIONS FOR IMPROVEMENT - REVIEW SUMMARY:

COMMENTS CONCERNING SIMILAR PRODUCTS / FEATURES BREAKDOWN:

- o General Features
- o Files Supported
- o Screen Formatting
- o Cursor Controls
- o Reports Generated
- o Storage/Disk Maintenance
- o Printer Control/Output Control
- o Etc.

RECOMMENDATION:

USER INTERFACE CONSIDERATIONS: (60% of total evaluation)

Program Flow:

Input Routine Strength:

Error Trapping:

Screen Design:

Clarity of Messages and Prompts:

USES MODEL FEATURES: (9% of total evaluation)

MISCELLANEOUS: (21% of total evaluation)

Completeness:

Output Design:

Accuracy / Bugs:

MANUAL: (6% and 4% of total evaluation)

Completeness:

Flow:

P R O D U C T T E S T D O C U M E N T

Product Number: _____ Date: _____

Testor: _____

Product: _____ Contact: _____

Company: _____

Phone: _____ Hardware Configuration: _____

DESCRIPTION OF PRODUCT:

PROGRAM FLOW AND FUNCTIONS TO BE TESTED:

ACCEPTABLE INPUT BY FUNCTION BY FIELD:

ACCEPTABLE OUTPUT BY FUNCTION BY FIELD:

GENERAL TESTING THROUGHOUT:

TESTING PROCEDURE:

TEST DATA AND RESULTS: (USE ATTACHED FORMAT)

TEST PROCEDURE INPUT AND RESPONSE LOG

Product: _____ Date: _____

Function being tested: _____

Page _____ of _____

=====			
I PROMPT	I INPUT	I RESPONSE (blank if expected)	I
=====			
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I
I	I	I	I

Etc.

All portions of the above format are to be filled out. Some parts will not be applicable to all products, but must be present as N/A. This will provide the play-by-play log of just what was tested, and why/how/who and what happened.

Best judgement must apply here as it is obvious that a large book may be generated quickly if one followed the format to the letter. The format provides a frame from which the test plan is developed, it is up to the testor to ensure that the test is done professionally and completely.

SAMPLE PRODUCT REVIEW AND COMPARISON

Date: April 11, 1983

Re: Product Review and Comparison

EasyScript 64
WordPro 3 Plus/64
WordPro 64
WordStar 3.0/64

CONTENTS

1. Hardware used in evaluation
2. Brief description of each wordProcessor
3. Summary of review
4. Comparison chart

HARDWARE

SYSTEM 1

Commodore 64, Serial# 245842, Kernal Rev. 2
Commodore Disk Drive, 1541, Serial# 1828338
Commodore Printer, 1525, Serial# 214566

SYSTEM 2

Commodore 64, Serial# 125683, Kernal Rev. 1
Commodore Disk Drive, 1541, Serial# 1828339

SYSTEM 3

Commodore CP/M System - CP/M cartridge and software.
The cartridge was installed to operate WordStar 3.0.

All wordProcessors, with the exception of WordPro 64, were tested and functioned the same on each system.

NOTE: This report was prepared with EasyScript 64 and printed on the 1525 Printer.

WordPro 3 PLUS/64

A subset of WordPro 4 Plus, which is used by many Commodore employees.

This easy to learn and operate word Processor uses color, sound, cursor control, insertion, deletion, and Printer and file manipulation.

It makes Partial usage of the 64's enhanced memory capability; e.g. it offers the same number of text lines as Professional Software's 8032 version. Other weaknesses found are: Printer functions do not support subscripts or superscripts, there is no scrolling (evidenced by the lack of a video output mode), WordPro does not Print selected Pages of a document and there is no use made of the 64's function keys.

SOFTWARE BUGS - none found

EasyScript 64

Another easy to learn and use wordProcessor. Designed to use sound, color, function keys and the expanded 64 memory. Features most of the functions found in WordPro 4 Plus and WordCraft 80 (both are 8032 Products!) and some that these two don't have.

Major strengths include the ability to set screen width to 240 columns; thus making it possible to set up charts, and almost twice the text area of WordPro 3 Plus/64.

SOFTWARE BUGS - none found

WordStar 3.0

Operates in a CP/M environment. WordStar won its Popularity because it has more features than any other Personal computer wordProcessor. Plus, it is supported by excellent speller and mail merge Packages.

WordStar makes no use of the features of the Commodore 64; e.g. color, sound or function keys and is difficult to learn. Although it is not suitable for the consumer, it does enjoy an excellent reputation in the general business marketplace. The cost of this Product is in the \$500.00 Price range.

Please note: due to the software bugs and the restrictions of the 1525 Printer, I was not able to test WordStar's Printer functions.

SOFTWARE BUGS - 1. Screen formatting for help statements is poor, difficult to read and contains misspelled words; 2. Printout is in graphics mode (lower case characters are caps and caps are Printed as graphics characters); 3. The clear tab command created "internal Problems"; and 4. The line spacing command hangs the system.

WordPro 64

I did not operate WordPro 64, all facts come from a Phone interview with Stu Martin. It contains all the features of WordPro 4 Plus and then some. Listed below are some of the WordPro 64 features not listed in the chart.

Symbolic Output - Makes a Graphic representation of the structure of the actual Printout. Gives the writer an opportunity to view the formatted Printout all on one screen.

Background Printing - allows user to Print files while editing another. The new feature added is that disk access is now allowed in this mode.

Additional changes and additions - supports up to four disk drives, the file name is remembered for disk saves, variable blocks in extra memory area are referenced in the main text by number rather than sequence, Printer modules are definable and stored on disk to customize for different Printers and the margin releases are relational rather than absolute values.

CONCLUSION

WordStar is the superior of the wordProcessors examined for this report. As mentioned above it is not for the average Commodore 64 user, it is expensive (\$495.00) and does require additional hardware (the CP/M system).

Based on Stu Martin's verbal description of WordPro 64 I find that WP64 better than either EasyScript or WordPro 3 Plus/64. The differences noted do make WP64 easier to operate and more powerful; however, it is not necessary to switch wordProcessors for the C64 unless a truly advantageous arrangement can be made. The reason for this recommendation is the targeted marketplace. EasyScript offers the average consumer computerist more than he/she will need.

Barring a purchase of WordPro 64 as noted above, I recommend the following action:

- market EasyScript 64 as THE wordProcessor for the Commodore 64.
- obtain an 80 column board for use with word Processors (similar to the board Produced by Data 20 Corp.)
- obtain a database system to operate with EasyScript 64 so that mailing lists and other files may be merged with files created by the wordProcessor.

Summary of Comparison Chart

	MAX SCORE	ES64	WPro3+/64	WStr3.0	W/C80	WPro64
GENERAL FEATURES	10.0	9.0	9.0	8.0	8.0	9.0
General Subtotal=	10.0	9.0	9.0	8.0	8.0	9.0
SCREEN FORMATS	11.0	9.0	8.0	10.0	10.0	9.0
CURSOR CONTROLS	11.0	10.0	10.0	10.0	9.0	10.0
SCROLLING	5.0	4.0	0.0	5.0	5.0	4.0
DELETE COMMANDS	7.0	6.0	6.0	6.5	6.0	7.0
INSERT COMMANDS	9.0	9.0	9.0	9.0	9.0	9.0
SEARCH AND REPLACE	7.0	7.0	7.0	7.0	7.0	7.0
Editor Subtotal=	50.0	45.0	40.0	47.5	46.0	46.0
PRINTER CONTROL	11.0	9.0	9.0	11.0	9.0	11.0
OUTPUT CONTROL	11.0	9.0	6.0	11.0	9.0	10.0
PAGE CONTROL	8.0	7.0	7.0	8.0	7.0	7.0
Printer Subtotal=	30.0	25.0	22.0	30.0	25.0	28.0
FILE CONTROL	10.0	7.0	8.0	10.0	7.0	8.0
Storage Subtotal=	10.0	7.0	8.0	10.0	7.0	8.0
TOTAL=	100.0	86.0	79.0	95.5	86.0	91.0*

KEY

Easy Script 64 - ES64
 WordPro 3 Plus/64 - WPro3+/64
 Word Star 3.0 - WStr3.0
 Wordcraft 80 - W/C80
 WordPro 64 - WPro64

* See WordPro 64 description for additional features.

WordProcessor Comparison Chart

ES64 WPro3+/64 WStr3.0 W/C80 WPro64

GENERAL FEATURES

Getting Started	Easy	Easy	Hard	Hard	Easy
Documentation	Good	Good	Good	Good	Good
Menu Driven	-	-	Y	-	-
Word Wrap	-	-	Y	Y	Y
Spelling Option	Y	Y	Y	Y	Y
Error Codes	Y	Y	Y	Y	Y
Exit to BASIC	-	Y	Y	Y	Y
Sound On/Off	Y	Y	-	-	Y
Appending Text - Duplicate	Y	Y	Y	Y	Y
Appending Text - Transfer	Y	Y	Y	Y	Y

SCREEN FORMATS

Command/Status Line	Y	Y	Y	Y	Y
Vertical Tabs	Y	-	-	-	-
Horizontal Tabs	Y	Y	Y	Y	Y
Decimal Tabs	Y	Y	Y	Y	Y
Display Tabs	Y	Y	Y	Y	Y
Multiple Tabs	Y	Y	Y	Y	Y
Split Screens	-	-	-	-	-
Maximum Available Lines	764	329	?	?	?
Maximum Available Columns	240	40	Unltd	?	160
Available Extra Text	-	Y	-	-	Y
Capital Lock	Y	Y	?	Y	Y
Change Character Color	Y	Y	-	-	Y
Change Background Color	Y	Y	-	-	Y
Change Border Color	Y	Y	-	-	Y
Display Next Screen	-	-	Y	Y	-
Display Previous Screen	-	-	Y	Y	-

CURSOR CONTROLS

Cursor by Word	Y	Y	Y	-	Y
Cursor by Line	Y	Y	Y	Y	Y
Cursor by Screen	-	-	Y	Y	-
To Beginning of Text	Y	Y	Y	Y	Y
To End of Text	Y	Y	Y	Y	Y
Horizontal Control	Y	Y	Y	Y	Y
Vertical Control	Y	Y	Y	Y	Y
Go To Line XXX	Y	Y	-	-	Y

SCROLLING

Vertical Scrolling	Y	-	Y	Y	Y
Horizontal Scrolling	Y	-	Y	Y	Y
Scroll to Text Beginning	-	-	Y	Y	Y
Scroll to Text Ending	Y	-	Y	Y	Y

DELETE COMMANDS

Delete Character	Y	Y	Y	Y	Y
Delete Word	-	Y	Y	Y	Y
Delete Line	Y	Y	Y	Y	Y
Delete Sentence	Y	Y	Y	-	Y
Delete Block	-	-	Y	Y	Y
Delete Remainder	Y	Y	-	-	Y
Delete All	Y	Y	Y	Y	Y

INSERT COMMANDS

Insert Character	Y	Y	Y	Y	Y
Insert Line	Y	Y	Y	Y	Y
Insert Block	Y	Y	Y	Y	Y

SEARCH AND REPLACE

Local Hunt and Find	Y	Y	Y	Y	Y
Global Hunt and Find	Y	Y	Y	Y	Y
Search and Replace	Y	Y	Y	Y	Y

ES64

WPro3+/64

WStr3.0

W/C80

WPro64

PRINTER CONTROL

Line/Form Feed	Y	Y	Y	Y	Y
Emergency Pause & Continue	Y	Y	Y	Y	Y
Double-Column Printing	Y	Y	Y	Y	Y
Proportional Spacing	Y	Y	Y	Y	Y
Right Justification	Y	Y	Y	Y	Y
Left Justification	Y	Y	Y	Y	Y
Stop Right Justification	Y	Y	Y	Y	Y
Margins	Y	Y	Y	Y	Y
Super/Subscripts	Y	Y	Y	Y	Y
Single & Double Spacing	Y	Y	Y	Y	Y

OUTPUT CONTROL

Output to Video/Screen	Y	Y	Y	Y	Y
Scrolling During Video Output	Y	Y	Y	Y	Y
Print Any Page From File	Y	Y	Y	Y	Y
Global Printing	Y	Y	Y	Y	Y
Simultaneous I/O Spool	Y	Y	Y	Y	Y
Stop Pagination	Y	Y	Y	Y	Y
Output to Printer	Y	Y	Y	Y	Y
Underline	Y	Y	Y	Y	Y
Bold Face	Y	Y	Y	Y	Y
Underline & Bold Face	Y	Y	Y	Y	Y
Centering	Y	Y	Y	Y	Y
Page Width	Y	Y	Y	Y	Y
Page Length	Y	Y	Y	Y	Y
Pause for Text Entry	Y	Y	Y	Y	Y
Pause for Variable Entry	Y	Y	Y	Y	Y
Print Multiple Copies	Y	Y	Y	Y	Y
Soft/Phantom Hyphen	Y	Y	Y	Y	Y

ES64	WPro3+/64	WStr3.0	W/C80	WPro64
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PGE CONTROL

Heading	Y	Y	Y	Y	Y
Multi-Line Heading	-	-	Y	-	-
Footin9	Y	Y	Y	Y	Y
Page Numberin9	Y	Y	Y	Y	Y

FILE CONTROL

Automatic Backup	-	-	Y	-	-
Insert Second File	Y	Y	Y	Y	Y
Display Second File	-	Y	Y	-	Y
Display File Directory	Y	Y	Y	Y	Y
Merge Files	Y	Y	Y	Y	Y
Scratch Files	Y	Y	Y	Y	Y

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- LICENSEE WILL HAVE THE RIGHT TO DISPLAY THE COMMODORE APPROVED PRODUCT LOGO ON PACKAGING AND ADVERTISING
- APPROVED PRODUCT CATALOGS WILL BE INSERTED IN THE COMPUTER BOXES DURING SPECIAL PROMOTIONS
- DIRECT MAIL BROCHURES WILL BE DISTRIBUTED TO OUR CUSTOMERS
- APPROVED PRODUCTS WILL BE PROMINENTLY DISPLAYED IN THE COMMODORE SOFTWARE ENCYCLOPEDIA
- THE COMMODORE MAGAZINES WILL CARRY ADS FROM APPROVED PRODUCT VENDORS ONLY
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